



TRANSPORTATION CABINET

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

November 17, 2010

CALL NO. 103
CONTRACT ID NO. 101055
ADDENDUM # 2

Subject: Jefferson County, TCSP 06KY (005)
Letting November 19, 2010

- (1) Revised - Special Notes - Pages 21-22 of 183
- (2) Revised - General Summary - Page 28 of 183
- (3) Added - Special Note - Page 109(b) of 183
- (4) Added - Detail - Page 109(c) of 183
- (5) Added - Special Notes - Pages 109(d)-109(j) of 183
- (6) Revised - Bid Items - Pages 182-183(a) of 183

Proposal revisions are available at <http://transportation.ky.gov/contract/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in blue ink that reads "Ryan Griffith".

Ryan Griffith
Director
Division of Construction Procurement

RG:ks

Enclosures



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above the bridge deck and is to be attached to the truss. The bridge deck is to be brushed concrete. Bridge abutments are to be precast or cast-in-place reinforced concrete and shall be vertical as shown on the Multi-use Path Profile Sheet.

Use concrete in accordance with Section 601 and the detail drawings. Obtain the Engineer's approval of any substitution prior to fabrication.

The plans in the proposal are preliminary only. Prior to fabrication, submit to the Engineer and obtain approval of the manufacturer's shop drawings for the steel truss bridge, bridge abutments and footings prepared by a Professional Engineer licensed in Kentucky. Include with each shipment of the precast or prefabricated sections and accessories a certification that all material furnished complies with the applicable specifications and these special notes.

III. CONSTRUCTION METHODS

A. Maintain and Control Traffic. See Traffic Control Plan.

B. Site Preparation. Be responsible for all site preparation, including, but not limited to: clearing and grubbing; tree and stump removal; embankment in place; removal of obstructions, or any other items; disposal of materials, waste, and debris; cleaning inlet and outlet ditches; restoration, clean up, and final dressing. Limit clearing and grubbing to the absolute minimum required to construct the pedestrian/bicycle bridge, multi-use path, and wood plank fence. Perform all site preparation only as approved or directed by the Engineer.


Provide positive drainage of slopes and ditches at all times during and upon completion of construction. Waste all removed materials at sites off the right of way obtained by the Contractor at no additional cost to the Department (refer to Kentucky 2008 Standard Specifications for Road and Bridge Construction Section 204.03.08 Disposal of Wasted Material). Perform all site preparation only as approved or directed by the Engineer.

C. Prefabricated Bridge. Be responsible for field layout and survey of the proposed bridge. Excavate to solid rock and construct abutments on reinforced concrete footings prepared according to the manufacturers approved design. Construct abutment walls, wing walls and footings according to the manufacturer's approved design or as directed by the Engineer. Obtain the Engineer's approval of the final centerline, flow line, length, skew, and each abutment wall alignment prior to backfilling. Provide for the manufacturer's technical representative to be available during construction of the footings, abutments, and backfill, and as requested by the

Engineer. Provide positive drainage upon completion of the project.
Construct wood plank fence up to the bridge truss.

- D. Pavement and Shoulder Restoration.** After the embankments are completed, establish crown and final grade lines and construct DGA base and asphalt base as shown on the typical section. Correct settlement with leveling and wedging as directed by the Engineer. When the Engineer determines the base is sufficiently stabilized, place final surface course.
- E. Final Dressing and Clean Up.** After all work is completed, completely remove all waste and debris from the construction worksite. Backfill all excavated areas and compact as directed by the Engineer. Perform Class A Final Dressing on all disturbed areas, both on and off the right of way. Sow all disturbed earthen areas according to the Kentucky 2008 Standard Specifications for Road and Bridge Construction Section 212.03.03 Permanent Seeding and Protection.
- F. On-Site Inspection.** Make a thorough inspection of the site prior to submitting bid and be thoroughly familiar with existing conditions so that the work can be expeditiously performed after a contract is awarded. The Department will consider submission of a bid as evidence of this inspection having been made. The Department will not consider any claims resulting from site conditions.
- G. Restoration.** Be responsible for damage to public and/or private property resulting from the work. Remove and replace all disturbed fences and guardrail. Restore all damaged features in like kind materials and design.
- H. Disposal of Waste.** Dispose of all removed stone masonry, concrete and reinforcing steel, pavement, debris, excess excavation, and other waste off the right-of-way at sites obtained by the Contractor at no additional cost to the Department (refer to Kentucky 2008 Standard Specifications for Road and Bridge Construction Section 204.03.08 Disposal of Wasted Material).
- I. Caution.** Consider the information shown on the plans and the type of work listed herein as approximate only and do not take the information as an accurate evaluation of the materials and conditions to be encountered during construction; the bidder must draw his own conclusions. The Department does not give any guarantee as to the accuracy of the data and no claim will be considered for if the conditions encountered are not in accordance with the information shown.
- J. Control.** Perform all work under the absolute control of the Department of Highways. Obtain the Engineer's approval of all designs required to be furnished by the Contractor and design modifications proposed by the Contractor or Manufacturer prior to incorporation into the work. The

[illegible]

	TRAFFIC LOOP BID ITEMS ADDED	Revised Contract #
		Page
		REVISION

SPECIAL NOTE FOR WOOD PLANK FENCE

I. DESCRIPTION

- A. Work includes providing all Wood Plank Fence, complete, as shown in the Drawings. Work for the pay item of Wood Plank Fence shall include all labor, materials, equipment, and finishing items necessary for the placement of plank fence, including but not limited to all hardwood boards, posts, shank nails, and appurtenances to the approval of the ENGINEER. No additional compensation, in addition to this item, paid per linear foot, shall be considered.
- B. Work shall be in accordance with the applicable provisions of Section 721 of the KDOH Standard Specifications.

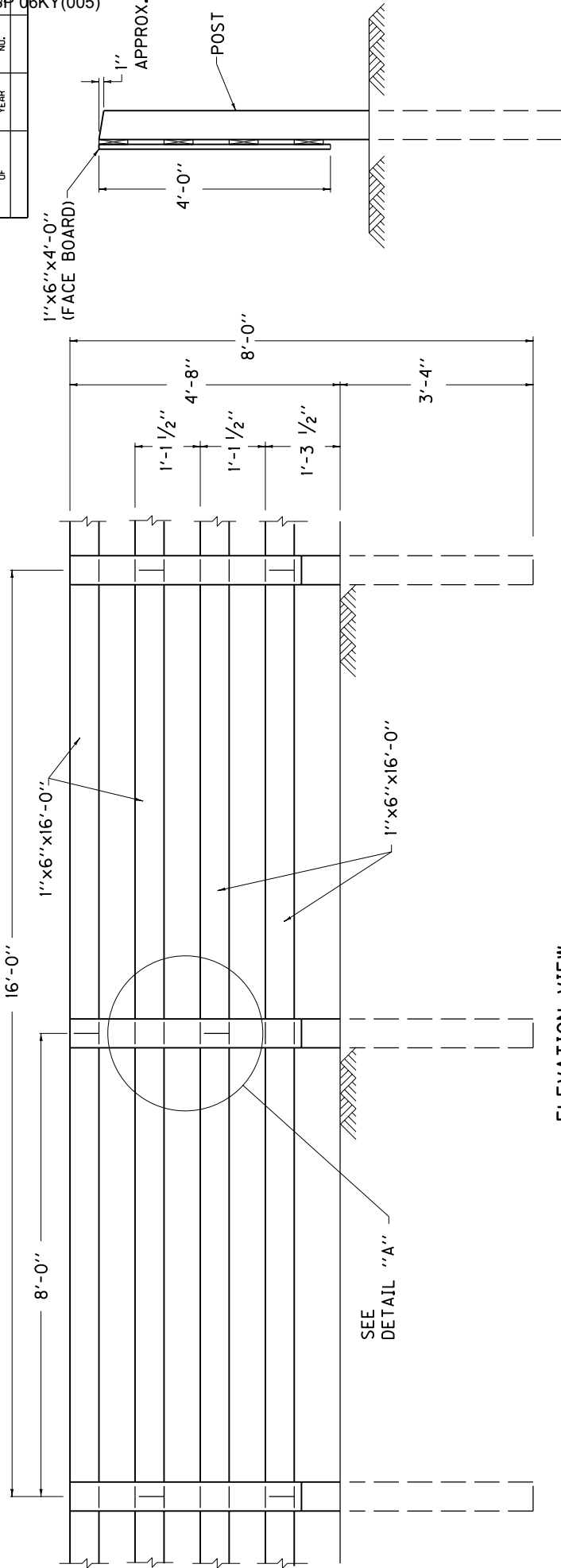
II. MATERIAL

- A. Fence boards shall be hardwood boards in accordance with the Wood Plank Fence Detail.
- B. Fence posts shall be pressure treated pine.

III. CONSTRUCTION METHODS

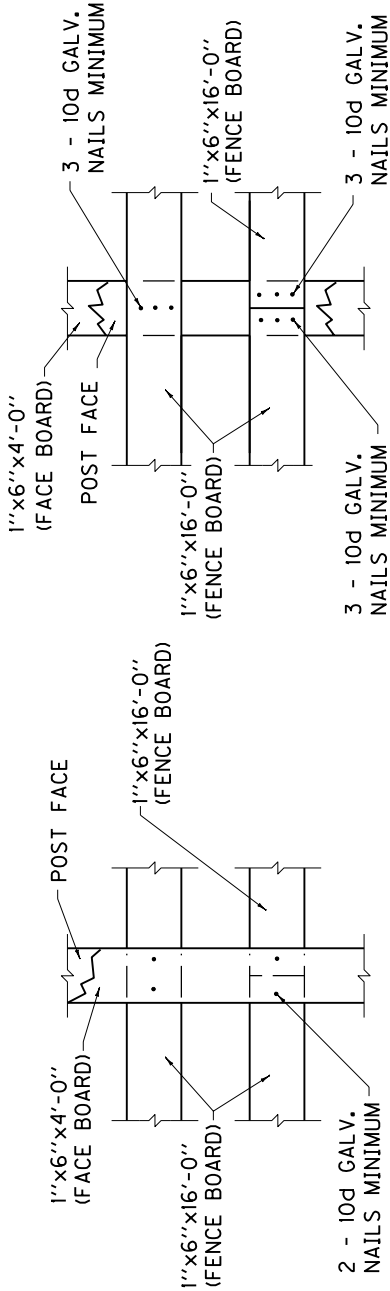
- C. Plank Fence shall be constructed in accordance with the Wood Plank Fence Detail.
- A. Plank Fence shall be constructed in accordance with applicable provisions of Section 721 of the KDOH Standard Specifications.
- B. Plank Fence color shall be determined by City of Jeffersontown.

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS



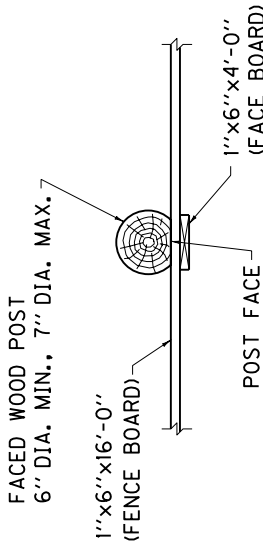
ELEVATION VIEW

SIDE ELEV. VIEW



DETAIL "A"

PLAN VIEW



NOTES:

1. THE CONTRACT UNIT PRICE PER LINEAR FOOT FOR "WOOD PLANK FENCE DETAIL" SHALL INCLUDE ALL LABOR, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE INSTALLATION AS DETAILED ON THIS DRAWING.
2. ALL FENCE BOARDS AND FACE BOARDS SHALL BE NO. 2 GRADE OR BETTER.
3. ALL WOOD BOARDS SHALL BE ROUGH SAWED OAK.
4. DIMENSIONS SHOWN FOR ALL WOODEN MEMBERS ARE NOMINAL.
5. THE FENCE SHALL BE PAINTED EITHER BLACK OR WHITE AS DIRECTED BY THE ENGINEER ON CONSTRUCTION.

KENTUCKY
DEPARTMENT OF HIGHWAYS

WOOD PLANK FENCE DETAIL

Added: 11-17-10
Contract ID: 101055
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SPECIAL NOTES FOR TRAFFIC SIGNAL LOOP REPLACEMENT

I. DESCRIPTION. Loop replacement shall be performed in accordance with the Department's Standard Specifications (current edition), applicable Standard Drawings, and applicable Special Provisions except as hereafter specified. Article references are to the Standard Specifications.

The Contractor shall furnish all materials, labor, and equipment for the replacement of traffic signal loop(s), and junction boxes (if the contract specifies quantities for this bid item elsewhere), and maintaining and controlling traffic, and all other work specified as part of this contract.

II. MATERIALS. All wire and cable shall be plainly marked in accordance with the provisions of the national electrical code.

Conduit shall be rigid steel. All rigid steel conduit shall be galvanized inside and out and shall conform to the Underwriters' Laboratories requirements for rigid metallic conduit.

Loop wire shall be #14 AWG IMSA Spec 51-7.

Loop lead-in cable shall be #14 AWG stranded, paired conductors, electrically shielded and conforming to IMSA 19-2-1984.

III. CONSTRUCTION. The electrical contractor shall coordinate with the general contractor and inspector to ensure the loops are installed prior to any milling work being performed.

All wiring shall conform to the provisions of the National Electrical Code unless otherwise shown on the details. Where more than one circuit is installed within the same conduit, permanent circuit identification numbers shall be affixed to the wires. All wires shall be permanently labeled within 6 inches of the input file.

Rigid steel conduit encasement shall be provided for all conductors except for overhead installations, where conductors are run inside poles or cabinets and induction loop conductors sealed within pavements. All conduit installations shall conform to the provisions of the National Electrical Code except where directed otherwise. Bonded slip joints will be permitted for joining rigid conduit to junction boxes. Where a standard coupling cannot be used, an approved threaded union coupling shall be used.

All conduit ends shall be reamed to remove burrs and sharp edges. Damaged portions of the galvanized surfaces and untreated threads resulting from field cuts shall be painted with a rust inhibitive paint. Conduit bends shall have a radius of not less than 12 times the nominal diameter of the conduit, unless otherwise shown on the plans. See Typical Grounding Detail.

Conduit which will not be subjected to regular pressure from traffic shall be laid to a depth of not less than 18 inches. At crossings under roadway surfaces and shoulders, the conduit shall be placed at a depth of not less than 24 inches below grade. The contractor will not be permitted to cut any pavement in carrying out conduit installations. After the conduit has been installed and prior to backfilling, the conduit installation shall be inspected and approved by the Engineer.

Contractor shall install underground utility warning tape above the circuit cables as shown on the detail sheets. The tapes shall conform to the APWA-ULCC national color code with black lettering on a red background. The tape shall continuously read "Caution: Electric Line Buried Below" alternating with a 'No Digging' symbol.

The tape shall be durable and colorfast to withstand years of underground burial and easily direct buried. The tape shall be 6" wide and 7 mils (nominal) thick. The tape shall have a minimum tensile strength of 600 lbs./6" width. It shall be color code impregnated with alkali and acid stable, lead-free, organic pigments for direct burial. It shall be ultraviolet colorfast. The tape shall be nondistorting with no elongation.

When backfilling trenches, the backfill material shall be placed and compacted in lifts of 9 inches or less. Any area disturbed as a result of the contractor's operations shall be restored to the satisfaction of the Engineer.

Loop lead-in wire, exclusive of shielded cable, shall be twisted with three to five turns per foot before placement in saw slot, conduit or junction box. Unshielded loop wiring to field terminal connections in cabinet and unshielded loop wiring in loop amplifier connector harness shall also be twisted three to five turns per foot.

Except for the connection of the loop wires to the loop lead-in wires, loops shall be extended splice-free to the controller. Loop wires shown as extended to poles or junction boxes shall be spliced into loop lead-in cable at the poles or boxes. Loop lead-in cable shall be extended splice-free from pole or junction box to controller. Each loop shall have a separate lead-in cable installed. Multiple loops on the same lead-in cable will not be accepted. Splices shall be placed to minimize possibility of water intrusion. The electrical contractor shall coordinate the installation of traffic loops with the paving contractor and the Engineer prior to milling.

Junction boxes shall conform to ANSI/SCTE 77 "Specifications for Underground Enclosure Integrity" for Tier 15. Covers shall have a minimum coefficient of friction of 0.05 in accordance with ASTM C1028, shall be marked "TRAFFIC" and be attached with 3/8 " stainless hex bolts. Junction boxes shall be installed flush with finished grade. See Junction Box Type B detail.

All splices shall be made with butt splices. Butt splices shall be copper and of the correct wire range. Butt splices shall be covered with a 3M Mastic Pad or approved equal and then taped with a 3M brand #33 electrical tape. Mastic pad must cover at least 3 inches past each end of butt splice. Underground splices include splices in junction boxes and

pole bases. Each conductor shall be encased in a separate splice kit. Cost of the splices shall be incidental to the cost of wire or cable. The splicing specification listed here takes precedence over any other splicing specifications listed in the Standard Specifications for Road and Bridge Construction.

Induction loop conductors shall test free of shorts and unauthorized grounds and shall have an insulating resistance of at least 100 megohms when tested with a 500 volt direct current potential in a reasonably dry atmosphere between conductors and ground.

Each Contractor submitting a bid for this work shall make a thorough inspection of the site prior to submitting his bid and shall thoroughly familiarize himself with existing conditions so that the work can be expeditiously performed after a Contract is awarded. Submission of a bid will be considered evidence of this inspection having been made. Any claims resulting from site conditions will not be honored by the Department.

Information provided in this proposal and the types and quantities of work listed are not to be taken as an accurate or complete evaluation of the material and conditions to be encountered during construction. The bidder must draw his own conclusion as to the conditions encountered. The Department does not give any guarantee as to the accuracy of the data and no claim will be considered for additional compensation if the conditions encountered are not in accordance with the information shown.

It is not anticipated that utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities.

The Contractor will be responsible for all damage to public and/or private property resulting from his work. Upon completion of the work, restore all disturbed highway features in like kind design and materials. Clean the site and dispose of all waste and debris off the right-of-way at sites obtained by the Contractor at no additional cost to the Department. Sow all disturbed earthen areas with Seed Mixture No. 1.

IV. MEASUREMENT.

Conduit shall include furnishing and installing specified conduit in accordance with specifications. This item includes conduit fittings, expansion joints, clamps, and weatherheads.

Junction box shall include furnishing and installing specified junction box in accordance with the specifications and shown on the Junction Box Type B detail. This item includes #57 aggregate, backfilling, and the restoration of disturbed areas to the satisfaction of the Engineer.

Trenching and backfilling shall include excavation, backfilling, and the restoration of disturbed areas to the satisfaction of the Engineer. Incidental to this item shall be

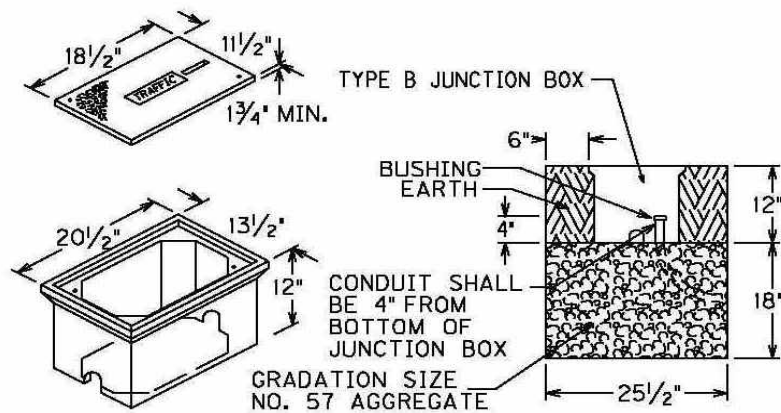
furnishing and installing underground utility warning tape as shown on the Depth of Conduit detail.

Wire or cable shall include furnishing and installing specified wire or cable within conduit, saw slot, or overhead as required. Incidental to this item shall be furnishing and installing splice boots, cable rings or other hardware required for installing cable. Wire installed in saw slots shall be installed as shown on the Saw Slot detail. The contractor shall install all cable runs splice-free from the controller to each loop wire the cable is feeding. Exceptions to this must be approved by the Engineer. The removal of existing lead-in cable shall be incidental to this item. The removal of existing lead-in cable shall be incidental to this item.

Loop saw slot and fill shall include sawing, cleaning saw slot as well as furnishing and installing loop sealant, backer rod and non-shrink grout as shown on the details. The contractor shall saw according to the dimensions shown on the detail sheets and not cut out any sections of pavement by over-sawing any slot. The 3/4" conduit referenced in the Loop Wire Transition details is incidental to this project and not a separate pay item.

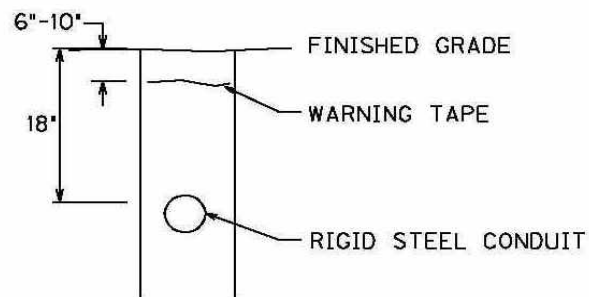
V. PAYMENT. The Department will make payment for completed and accepted quantities under the following:

Code	Pay Item	Pay Unit
4793	Conduit 1 1/4"	Linear Foot
4795	Conduit 2"	Linear Foot
4811	Junction Box Type B	Each
4820	Trenching and Backfilling	Linear Foot
4830	Loop Wire	Linear Foot
4850	Cable-No. 14/1 Pair	Linear Foot
4895	Loop Saw Slot and Fill	Linear Foot

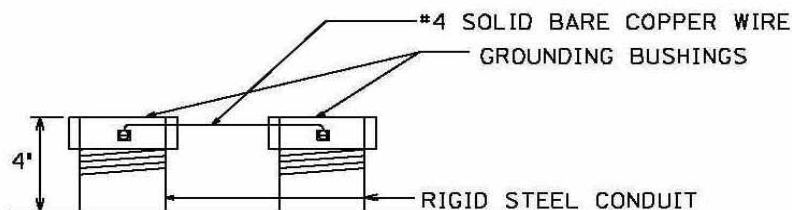


JUNCTION BOXES SHALL CONFORM TO ANSI/SCTE 77 "SPECIFICATIONS FOR UNDERGROUND ENCLOSURE INTEGRITY" FOR TIER 15. COVERS SHALL HAVE A MINIMUM COEFFICIENT OF FRICTION OF 0.05 IN ACCORDANCE WITH ASTM C1028, SHALL BE MARKED 'TRAFFIC' AND BE ATTACHED WITH $\frac{3}{8}"$ STAINLESS HEX BOLTS. JUNCTION BOXES SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.

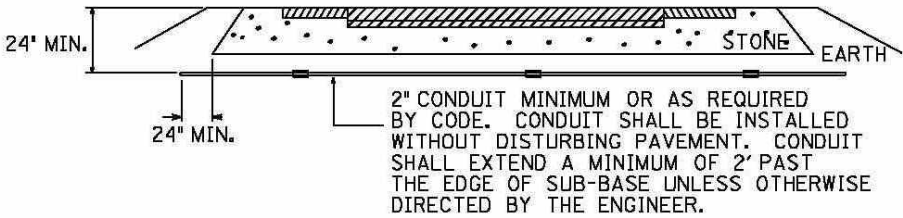
JUNCTION BOX TYPE B



DEPTH OF CONDUIT



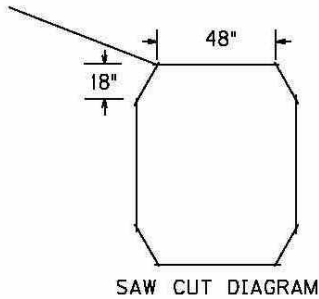
TYPICAL GROUNDING DETAIL



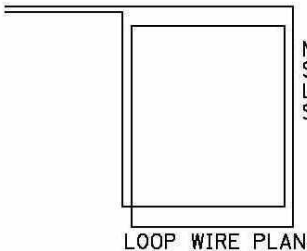
CONDUIT UNDER EXISTING PAVEMENT DETAIL

LOOP LEAD-IN WIRES SHALL BE TWISTED WITH THREE TO FIVE TURNS PER FOOT UNTIL TERMINATED AT FIELD CONNECTIONS IN THE CABINET OR CONNECTED TO SHIELDED CABLE.

TO PULL BOX AND/OR
CONTROL BOX



TO PULL BOX AND/OR
CONTROL BOX



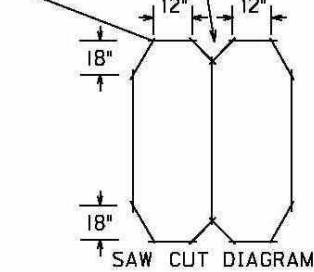
STANDARD LOOP

•ALL 6'x6' LOOPS SHALL BE STANDARD

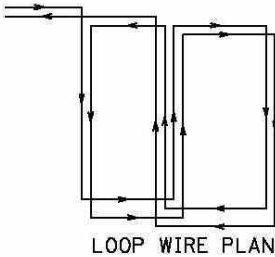
LOOP LEAD-IN WIRES SHALL BE TWISTED WITH THREE TO FIVE TURNS PER FOOT UNTIL TERMINATED AT FIELD CONNECTIONS IN THE CABINET OR CONNECTED TO SHIELDED CABLE.

DO NOT SAW CUT MIDDLE
SECTION (TYP.)

TO PULL BOX AND/OR
CONTROL BOX



TO PULL BOX AND/OR
CONTROL BOX



QUADRAPOLE LOOP

•ALL 6'x30' LOOPS SHALL BE QUADRAPOLE

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COUNTY: JEFFERSON
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LINE NO	ITEM	DESCRIPTION	APPROXIMATE UNIT QUANTITY	UNIT PRICE	AMOUNT
SECTION 0001 ROADWAY					
0010	00001	DGA BASE	399.000 TON		
0020	00221	CL2 ASPH BASE 0.75D PG64-22	114.000 TON		
0030	00301	CL2 ASPH SURF 0.38D PG64-22	51.000 TON		
0040	00524	STORM SEWER PIPE-24 IN	41.000 LF		
0050	01434	SLOPED BOX OUTLET TYPE 1-24 IN	1.000 EACH		
0060	01544	DROP BOX INLET TYPE 11	1.000 EACH		
0070	01875	STANDARD HEADER CURB	136.000 LF		
0080	01953	CONC MEDIAN BARRIER TYPE 12B2	283.000 LF		
0090	01967	CONC MEDIAN BARRIER TYPE 12C	786.000 LF		
0100	01984	DELINEATOR FOR BARRIER-WHITE	20.000 EACH		
0110	02359	GUARDRAIL CONNECTOR TO CONC MED BARR	2.000 EACH		
0120	02381	REMOVE GUARDRAIL	792.000 LF		
0130	02562	SIGNS	63.000 SQFT		
0140	02650	MAINTAIN & CONTROL TRAFFIC	(1.00) LS		
0150	02701	TEMP SILT FENCE	1,550.000 LF		
0160	02709	CLEAN TEMP SILT FENCE	1,550.000 LF		
0170	02720	SIDEWALK-4 IN CONCRETE	91.000 SQYD		
0180	02726	STAKING	(1.00) LS		
0190	03240	BASE FAILURE REPAIR	191.000 SQYD		
0200	03290	SIDEWALK RAMP TYPE 4	1.000 EACH		

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE UNIT QUANTITY	UNIT PRICE	AMOUNT
0210	05985	SEEDING AND PROTECTION	2,038.000 SQYD		
0220	06514	PAVE STRIPING-PERM PAINT-4 IN	2,232.000 LF		
0230	06517	PAVE STRIPING-PERM PAINT-12 IN	195.000 LF		
0240	06530	PAVE STRIPING REMOVAL-4 IN	2,185.000 LF		
0250	06568	PAVE MARKING-THERMO STOP BAR-24IN	46.000 LF		
0260	06570	PAVE MARKING-PAINT CROSS-HATCH	1,563.000 SQFT		
0270	06572	PAVE MARKING-DOTTED LANE EXTEN	112.000 LF		
0280	06574	PAVE MARKING-THERMO CURV ARROW	3.000 EACH		
0290	06589	PAVEMENT MARKER TYPE V-MW	9.000 EACH		
0300	06591	PAVEMENT MARKER TYPE V-BY	44.000 EACH		
0310	08711	BRIDGE CHAIN LINK FENCE-6 FT	277.000 LF		
0320	21533EN	EMBANKMENT	928.000 CUYD		
0330	21554EN	EXCAVATION	81.000 CUYD		
0340	22000ED	WOOD PLANK FENCE	1,093.000 LF		
0350	23990EC	BARRIER POST	2.000 EACH		
SECTION 0002 BRIDGE					
0360	20257NC	SITE PREPARATION	(1.00) LS		
0370	23989EC	PRECAST STEEL TRUSS BRIDGE	(1.00) LS		
SECTION 0003 TRAFFIC LOOPS (ADDED: 11-17-10)					
0380	04793	CONDUIT-1 1/4 IN	10.000 LF		
0390	04830	LOOP WIRE	800.000 LF		

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE UNIT QUANTITY	UNIT PRICE	AMOUNT
0400	04850	CABLE-NO. 14/1 PAIR	574.000 LF		
0410	04895	LOOP SAW SLOT AND FILL	306.000 LF		
SECTION 0004 DEMOBILIZATION					
0420	02569	DEMOBILIZATION (AT LEAST 1.5%)	LUMP		
		TOTAL BID			